

**APPARATUS, SYSTEMS AND METHODS  
FOR AN INFUSION PUMP ASSEMBLY****CROSS REFERENCE TO RELATED  
APPLICATIONS**

**[0001]** The present application is a Continuation of U.S. patent application Ser. No. 15/350,768, filed Nov. 14, 2016, now U.S. Pat. No. 10,485,922, issued Nov. 26, 2019 and entitled Apparatus, Systems and Methods for An Infusion Pump Assembly (Attorney Docket No. U19), which is a Divisional of U.S. patent application Ser. No. 12/837,193, filed Jul. 15, 2010, now U.S. Pat. No. 9,492,606, issued Nov. 15, 2016 and entitled Apparatus, Systems and Methods for An Infusion Pump Assembly (Attorney Docket No. I23), which is a Non-Provisional Application which claims priority from U.S. Provisional Patent Application Ser. No. 61/270,908, filed Jul. 15, 2009 and entitled Infusion Pump Assembly (Attorney Docket No. H34), each of which is hereby incorporated herein by reference in its entirety.

**[0002]** U.S. patent application Ser. No. 12/837,193, is also a Continuation-in-Part of U.S. patent application Ser. No. 12/347,981, filed Dec. 31, 2008, now U.S. Pat. No. 8,496,646, issued Jul. 30, 2013 and entitled Infusion Pump Assembly (Attorney Docket No. G77), which is hereby incorporated herein by reference in its entirety, which application also claims priority from the following U.S. Provisional Patent Applications, all of which are hereby incorporated herein by reference in their entireties:

**[0003]** U.S. Provisional Patent Application Ser. No. 61/018,054, filed Dec. 31, 2007 and entitled Patch Pump with Shape Memory Wire Pump Actuator (Attorney Docket No. E87);

**[0004]** U.S. Provisional Patent Application Ser. No. 61/018,042, filed Dec. 31, 2007 and entitled Patch Pump with External Infusion Set (Attorney Docket No. E88);

**[0005]** U.S. Provisional Patent Application Ser. No. 61/017,989, filed Dec. 31, 2007 and entitled Wearable Infusion Pump with Disposable Base (Attorney Docket No. E89);

**[0006]** U.S. Provisional Patent Application Ser. No. 61/018,002, filed Dec. 31, 2007 and entitled Patch Pump with Rotational Engagement Assembly (Attorney Docket No. E90);

**[0007]** U.S. Provisional Patent Application Ser. No. 61/018,339, filed Dec. 31, 2007 and entitled System and Method for Controlling a Shape-Memory Actuator (Attorney Docket No. E91);

**[0008]** U.S. Provisional Patent Application Ser. No. 61/023,645, filed Jan. 25, 2008 and entitled Infusion Pump with Bolus Button (Attorney Docket No. F49);

**[0009]** U.S. Provisional Patent Application Ser. No. 61/101,053, filed Sep. 29, 2008 and entitled Infusion Pump Assembly with a Switch Assembly (Attorney Docket No. F73);

**[0010]** U.S. Provisional Patent Application Ser. No. 61/101,077, filed Sep. 29, 2008 and entitled Infusion Pump Assembly with a Tubing Storage (Attorney Docket No. F74);

**[0011]** U.S. Provisional Patent Application Ser. No. 61/101,105, filed Sep. 29, 2008 and entitled Improved Infusion Pump Assembly (Attorney Docket No. F75); and

**[0012]** U.S. Provisional Patent Application Ser. No. 61/101,115, filed Sep. 29, 2008 and entitled Filling Apparatus and Methods for an Infusion Pump Assembly (Attorney Docket No. G08).

**[0013]** U.S. patent application Ser. No. 12/347,981 is also a Continuation-In-Part Application of each of the following applications:

**[0014]** U.S. patent application Ser. No. 11/704,899, filed Feb. 9, 2007, now U.S. Pat. No. 8,414,522, published Apr. 9, 2013 and entitled Fluid Delivery Systems and Method (Attorney Docket No. E70);

**[0015]** U.S. patent application Ser. No. 11/704,896 filed Feb. 9, 2007, now U.S. Pat. No. 8,585,377-A1, issued Nov. 19, 2013 and entitled Pumping Fluid Delivery Systems and Methods Using Force Application Assembly (Attorney Docket No. 1062/E71);

**[0016]** U.S. patent application Ser. No. 11/704,886, filed Feb. 9, 2007, now U.S. Pat. No. 8,545,445, issued Oct. 1, 2013 and entitled Patch-Sized Fluid Delivery Systems and Methods (Attorney Docket No. 1062/E72); and

**[0017]** U.S. patent application Ser. No. 11/704,897, filed Feb. 9, 2007, now U.S. Pat. No. 8,113,244, issued Feb. 14, 2013 and entitled Adhesive and Peripheral Systems and Methods for Medical Devices (Attorney Docket No. 1062/E73), all of which claim priority from the following U.S. Provisional Patent Applications, and all of which are hereby incorporated herein by reference in their entireties:

**[0018]** U.S. Provisional Patent Application Ser. No. 60/772,313, filed Feb. 9, 2006 and entitled Portable Injection System (Attorney Docket No. 1062/E42);

**[0019]** U.S. Provisional Patent Application Ser. No. 60/789,243, filed Apr. 5, 2006 and entitled Method of Volume Measurement for Flow Control (Attorney Docket No. 1062/E53); and

**[0020]** U.S. Provisional Patent Application Ser. No. 60/793,188, filed Apr. 19, 2006 and entitled Portable Injection and Adhesive System (Attorney Docket No. 1062/E46), all of which are hereby incorporated herein by reference in their entireties.

**[0021]** U.S. patent application Ser. No. 11/704,899, filed Feb. 9, 2007, now U.S. Pat. No. 8,414,522, published Apr. 9, 2013 and entitled Fluid Delivery Systems and Method (Attorney Docket No. E70); U.S. patent application Ser. No. 11/704,896 filed Feb. 9, 2007, now U.S. Pat. No. 8,585,377-A1, issued Nov. 19, 2013 and entitled Pumping Fluid Delivery Systems and Methods Using Force Application Assembly (Attorney Docket No. 1062/E71); U.S. patent application Ser. No. 11/704,886, filed Feb. 9, 2007, now U.S. Pat. No. 8,545,445, issued Oct. 1, 2013 and entitled Patch-Sized Fluid Delivery Systems and Methods (Attorney Docket No. 1062/E72); and U.S. patent application Ser. No. 11/704,897, filed Feb. 9, 2007, now U.S. Pat. No. 8,113,244, issued February 14, 2013 and entitled Adhesive and Peripheral Systems and Methods for Medical Devices (Attorney Docket No. 1062/E73), may all be related to one or more of each other and may also be related to:

**[0022]** U.S. Provisional Patent Application Ser. No. 60/889,007, filed Feb. 9, 2007 and entitled Two-Stage Transcutaneous Inserter (Attorney Docket No. 1062/E74), which is hereby incorporated herein by reference in its entirety.